Bio Sketch — Simone Bandini

Simone Bandini is an industrial PhD candidate in Materials Engineering, working on advanced materials for space applications through a partnership between Sapienza University of Rome and Thales Alenia Space Italia. He holds a Bachelor's degree in Mechanical Engineering and a Master's degree in Nanotechnology Engineering, both from Sapienza University of Rome. His research addresses the reliability and long-term stability of lead-free solder joints as a sustainable alternative to lead-based solutions for space applications, assessing their evolution under space-relevant ageing conditions to support the qualification and industrialisation of greener space-grade components. His work also extends to lightweight, graphene-doped technopolymer materials for thermal management applications, where reducing mass without compromising performance is a key design driver; this strand of his research has included stays at the Madrid Institute of Materials Science (ICMM) and Universidad Complutense de Madrid, focused on thermal diffusivity and conductivity studies of these doped technopolymers.

Email: simone.bandini@uniroma1.it